

REGULATION VI - EMERGENCY EPISODES

RULE 600 EMERGENCY EPISODES

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**MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS**

REGULATION VI - EMERGENCY EPISODES

**RULE 600
EMERGENCY EPISODES**

SECTION 100 - GENERAL

- 101 PURPOSE:** To establish criteria used to determine air pollution emergency episodes and the appropriate control actions. This rule describes control and advisory procedures reached at each of the three episode levels.
- 102 EPISODE PROCEDURES GUIDELINES:** Guidelines for the procedures and communication steps to be followed during an air pollution episode are presented in Appendices D and E of the Arizona Air Pollution Control Implementation Plan.

SECTION 200 - DEFINITIONS: For the purpose of this rule, the following definition shall apply:

- 201 EMERGENCY EPISODE PLAN -** A system designed to reduce the levels of air contaminants which may reach or have reached the level which may be harmful to health, and to protect that portion of the population at risk.

SECTION 300 - STANDARDS

- 301 EPISODE LEVEL CRITERIA:** An air pollution alert, warning or emergency shall be declared when the following air pollutant concentrations are exceeded at any monitoring site and when meteorological conditions indicate that there will be a recurrence of those concentrations for the same pollutant(s) during the subsequent 24-hour period:

EPISODE LEVEL CRITERIA

| <u>Pollutant</u> | <u>Averaging Time</u> | <u>Alert</u> | <u>Warning</u> | <u>Emergency</u> |
|--|---------------------------|--------------|----------------|------------------|
| Sulfur Dioxide (ug/m ³) | 24-hr | 800 | 1,600 | 2,100 |

| <u>Pollutant</u> | <u>Averaging Time</u> | <u>Alert</u> | <u>Warning</u> | <u>Emergency</u> |
|------------------|---------------------------|--------------|----------------|------------------|
|------------------|---------------------------|--------------|----------------|------------------|

| | | | | |
|---|-------|---------------------|----------------------|----------------------|
| Small Particulates (PM ₁₀) (ug/m ³) | 24-hr | 350 | 420 | 500 |
| Total Particulates (ug/m ³) | 24-hr | 375 | 625 | 875 |
| Sulfur Dioxide and Particulates Combined (ug/m ³) | 24-hr | 6.5x10 ⁴ | 26.1x10 ⁴ | 39.3x10 ⁴ |
| Ozone (ug/m ³) | 1-hr | 400 (0.2ppm) | 800 (0.4ppm) | 1,000 (0.5ppm) |
| Nitrogen Dioxide (ug/m ³) | 1-hr | 1,130 | 2,260 | 3,000 |
| | 24-hr | 282 | 565 | 750 |
| Carbon Monoxide mg/m ³ | 8-hr | 17 (15 ppm) | 34 (20 ppm) | 46 (40 ppm) |

302 CONTROL ACTIONS: When an air pollution alert, warning or emergency has been declared, one or more of the control actions as applicable to the source emitting the pollutant of concern shall be implemented in the affected area.

302.1 Control Actions - Air Pollution Alert

- a. All permits to burn shall be suspended until further notice. The forest service shall be notified to postpone slash burning in affected areas.
- b. Incineration shall be limited to the hours of 12 noon to 4:00 p.m.
- c. Those manufacturing facilities with prearranged emission reduction plans as noted in the State Air Pollution Control Implementation Plan shall be notified to initiate alert stage control actions. Other sources shall be notified to minimize emissions by curtailing or deferring operations not on a required schedule and by maximizing the collection efficiency of control equipment. Emissions from batch operations shall be limited to the hours of 12 noon to 4:00 p.m.
- d. The public shall be requested to voluntarily eliminate all unnecessary usage of motor vehicles.

302.2 Control Actions - Air Pollution Warning

- a. Burning of refuse, vegetation, trade wastes, and debris shall not be permitted by any person.
- b. Use of incinerators shall be prohibited.
- c. Those manufacturing facilities with prearranged emission reduction plans as noted in the Arizona Air Pollution Control Implementation Plan shall be notified to initiate warning stage control actions. Other sources shall be notified to initiate a 40 percent or greater reduction in emissions by curtailment or cessation of operations. All processing industries shall be requested to effect a maximum reduction in heat load demands.
- d. If possible, power plant generating loads shall be transferred outside the affected area. Power plant production shall be reduced by purchase of available energy from neighboring utilities.
- e. Highway construction and paving activities shall be halted. All soil removal or grading operations at other construction sites shall be postponed.
- f. Dust producing crop preparation and cultivation activities shall be postponed. A maximum reduction in agricultural processing and handling operations shall be effected.
- g. The public shall be requested to voluntarily reduce motor vehicle usage by use of carpools and other means of transportation and elimination of unnecessary operation.

302.3 Control Actions - Air Pollution Emergency

- a. Those manufacturing facilities with prearranged emission reduction plans as noted in the Arizona Air Pollution Control Implementation Plan shall be notified to initiate emergency stage control actions. Other manufacturing establishments shall cease operations as directed by the Governor.
- b. As directed by the Governor, all commercial, governmental, and institutional establishments, except those vital for public safety and welfare and enforcement of the emergency episode control actions, shall be closed.

- c. Generating loads at power plants shall be reduced further, resulting from industrial and commercial cutbacks.
- d. All construction shall be halted as directed by the Governor except that which must proceed to avoid emergent physical harm.
- e. As directed by the Governor, use of motor vehicles shall be prohibited except in emergencies with approval of the local police.

SECTION 400 - ADMINISTRATIVE REQUIREMENTS

401 EPISODE TERMINATION: Once declared, any status reached by application of these criteria shall remain in effect until the criteria for that level are no longer met. At such time, the next lower status will be assumed.

402 COORDINATION WITH THE STATE DEPARTMENT OF ENVIRONMENTAL QUALITY: When the conditions justifying the proclamation of an air pollution alert, warning, or emergency are determined to exist in any place in Maricopa County, the Control Officer shall be guided by the following criteria as established by state regulation R18-2-219, and cooperate directly with the State Director, Arizona Department of Environmental Quality in all pertinent areas of control and surveillance.

402.1 If the average wind speed for 24 hours is greater than 9.0 miles per hour, the criteria levels for particulates and sulfur dioxide and particulates combined shall not apply and no source control actions shall be taken.

402.2 If, after an alert or warning episode level has been declared, and air pollution concentrations and meteorological conditions do not deteriorate further, or improve after 48 hours and control actions have been taken, the next higher episode shall be declared and its associated control actions implemented.